



Customs and Border Protection

DHS/CBP TRADE VPN Deciding Which VPN Connection Type is Best for Your Company

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DHS/CBP TRADE VPN

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There are three scenarios that need to be considered when deciding which method to use to connect to the DHS/CBP Trade Partner VPN Infrastructure

Scenario #1: (Cisco IPSEC VPN Client)

Your company has high-speed Internet, will only need to send and retrieve data from one Windows 2000, XP, Vista or Windows 7 computer, and only needs to connect, briefly, to DHS/CBP a few times a day.

Connection Method:

- LAN / DSL / Cable Modem based Internet connection

Platform Requirement:

- Windows 2000, XP, Vista or Windows 7
- If using a non-Windows platform, see scenario #2

Other Software Required:

- MQSeries Client **
- Cisco VPN Software Client version 4.8.01.0300 or later
- (DHS/CBP will provide with set-up instructions)
- Potentially \$0 cost to establish connectivity to DHS/CBP
- Utilizes existing, high-speed Internet connection

Limitations:

- Cannot be used with MQSeries Server
- Connection needs to be manually initiated (can be scripted)
- Limited to “connect-put/get-disconnect” type connections
- Dropped connections will not auto-reconnect
- Connectivity to the WEB is blocked for that PC while it is connected to DHS/CBP
- Connectivity is limited to the locally connected LAN

Scenario #2: (Internet based IPSEC LAN to LAN Connection)

Your company has high-speed Internet and will (one or more of the following):

- Desire the most robust VPN connection via the Internet
- Run MQ Client from a Windows or non-Windows 2000/XP/Vista/7 system
- Run MQ Server

Connection Method:

LAN / DSL / Cable Modem based Internet connection with Internet router with an available public IP address to dedicate to this connection

VPN Hardware Requirement (one of the following):

- Cisco 891 (Cisco mfg# CISCO891-K9 / estimated cost: \$800)
- Cisco 1921 (Cisco mfg# CISCO1921-SEC/K9 / estimated cost: \$1,000)
- Cisco 2911 (Cisco mfg# CISCO2911-SEC/K9 / estimated cost: \$2,100)
- Cisco ASA 5505 - 5550 (Cisco mfg# ASA5505-50-BUN-K9 / estimated cost: \$500 ASA5550-50-BUN-K9 estimated cost: \$12,000)

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- NOTE: If your company would like to use a Cisco IPSEC device that is not listed above, please contact DHS/CBP's Network Support Team at 1-877-347-1638, option 1, to determine if the device meets DHS/CBP's requirements.

Other Software or Specification Required:

- MQSeries Client ** or Server
- Cisco IOS version level will be provided by DHS/CBP based on what is determined to be the most stable and secure code
- Router configured with Cisco EZVPN mode is required for the Trade Partner configuration using MQSeries Client
- AES 256 IPSEC Encryption

Benefits:

- Most robust type of VPN connection
- No recurring monthly leased line charges
- Utilizes existing, high-speed Internet connection
- Tunnel creation, to and from DHS/CBP, can be initiated from either side (when using MQSeries Server)
- Data flows at time of creation, rather than going into a queue (when using MQSeries Server)
- Multiple systems can send data to DHS/CBP without additional software (when using MQSeries Server)

Limitations:

- Not controlled and monitored at the same service level as a dedicated MPLS connection to DHS/CBP (scenario #3)

Scenario #3: (MPLS based IPSEC LAN to LAN Connection)

Your company requires the assurance of a 24X7, always on, monitored connection with dedicated bandwidth and redundancy.

Connection Method:

- Dedicated and redundant MPLS* connections directly to DHS/CBP

VPN Hardware Requirement (one of the following):

- Cisco 1921 with WIC-1DSU-T1-V2 Bundle
 - Mfg# CISCO1921-T1 / estimated cost: \$1,300
- Cisco 2911 with WIC-1DSU-T1-V2
 - Mfg# CISCO2911 / estimated cost: \$2,200
- Mfg# WIC-1DSU-T1-V2= / estimated cost: \$700
- NOTE: If your company would like to use a Cisco IPSEC device that is not listed above, please contact DHS/CBP's Network Support Team at 1-877-347-1638, option 1, to determine if the device meets DHS/CBP's requirements.

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- **OPTIONAL:** To accommodate Trade Partners that desire a backup connection for their dedicated circuit, use of an Internet VPN is supported as a secondary transport connection. This would require a separate VPN device selected from scenario #2 or #3.

Other Software or Specification Required:

- MQSeries Server
- Cisco IOS version level will be provided by DHS/CBP based on what is determined to be the most stable and secure code
- AES 256 IPSEC Encryption

Benefits:

- Most reliable type of connection
- Tunnel creation, to and from DHS/CBP, can be initiated from either side
- Data flows at time of creation, rather than going into a queue
- Multiple systems can send data to DHS/CBP without additional software
- Can be combined with Scenario #2 to enhance redundancy, in the event the MPLS connection goes down

Limitations:

- None

Details

- Contact Verizon or AT&T for costing.
- Pre-existing accounts – Contact your Verizon Business Account Representative or AT&T Account Representative for additional information.
- New accounts - Call Verizon 888-200-6002, option 1 and request support for service.
- New Accounts – AT&T – Browse website
<http://www.business.att.com/enterprise/Family/network-services/ip-vpn/?source=IEa2250011tpdsIP>

* *MPLS: Multiprotocol Label Switching – Termed “VBNS” by Verizon and “AVPN” by AT&T*

** *The automation of VPN Client and/or MQ Client put/get connections is permitted at an interval of no less than 5 minutes. In other words, please wait, or adjust your automated scripts to wait, at least 5 minutes between connections to DHS/CBP VPN/MQ.*